Saskatchewan
Agriculture
and Food

FINAL REPORT

Agriculture Research Branch
Saskatchewan Agriculture and Food

20000349

REGIONAL TESTING OF GRAIN CROP VARIETIES FOR SASKATCHEWAN - EXTENSION

Funded by
Technology Adoption Demonstration

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Regional Testing of Grain Crop Varieties for Saskatchewan

Project No. 2000 0349
Res: TAD3

Final Report

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(a) Abstract:

Regional Grain Crop Variety Trials were conducted at 11 off-station locations throughout Saskatchewan and at the University of Saskatchewan's Kernen Crop Research Farm near Saskatoon in 2001. The objective is to compare the performance of new varieties and lines which may soon be registered to current check varieties under various soil and growing conditions throughout the province. A secondary objective is to provide variety demonstration sites that SAF Extension Agrologists and other interested parties may use for local technology transfer events. Fifteen crop kinds were included in the trials and 223 different crop varieties were tested. Results were forwarded to Saskatchewan Advisory Council on Grain Crops provincial crop co-ordinators for use in revising provincial crop variety recommendations for the year 2002. The results of the 2001 trials and the average performance of varieties for the years 1997 through 2001 have been published in booklet form and are included with this report.

(b) Executive Summary:

See abstract above. This project produces a large amount of tabular data each year. Thus, the results cannot be summarized readily in this space. The most meaningful summaries are the two publications enclosed with this report and the SAF annual publication, **Varieties of Grain Crops for Saskatchewan,** which is based upon data provided by this project and other trials conducted throughout the province.

(c) Technical Report:

Project activities:
Regional Grain Crop Variety Trials were conducted at 11 off-station locations throughout Saskatchewan and at the University of Saskatchewan's Kernen Crop Research Farm near Saskatoon in 2001. Fifteen crop kinds were included in the trials and 223 different crop varieties were tested. Total precipitation for the April through September period ranged from 42% (Battleford) to 86% (Nipawin) of normal across all the sites and the average precipitation was 59% of normal. The severe drought conditions affected several of the trials and thus the amount of useful data collected was less than normal as the drought reduced yield and contributed to larger than desired coefficients of variation for yield data for some crops at some sites. Crop yield data at specific sites where the coefficient of variation was greater than 20% are not presented because they are considered to be unreliable.

Trials were conducted at Assiniboia, Carlyle, Elrose, Girven, Saskatoon, Luseland, Battleford, Rosthern, Weyburn, Kelvington, Nipawin, Shellbrok and Hagen (flax only). The varieties included in the trials are listed in the accompanying reports. Three replicate trials were established at all sites following established procedures. Yields were obtained using a small-plot combine that harvests the entire plot. Grain samples were dried to standard moisture and cleaned prior to weighing for yield determination. Data were provided in November to appropriate crop co-ordinators for use in the preparation of the 2002 edition of "Varieties of Grain Crops for Saskatchewan".

Two publications have been produced for distribution:

Regional Spring Grain Variety Trial – 2001. K. Sapsford and S. Piché.
Crop Development Centre, University of Saskatchewan, Saskatoon, SK.38 pp.

Regional Spring Grain Variety Trial – 1997 - 2001. K. Sapsford and S. Piché .
Crop Development Centre, University of Saskatchewan, Saskatoon, SK.71 pp.

REGIONAL VARIETY TRIAL LOCATIONS & CO-OPERATORS, 2001

Extension Agrologist	Site	Co-operator
Dave Whitehead, Extension Agrologist 509 Pioneer Drive North Battleford SK S9A 1E9 Phone: 306-446-7462	North Battleford	Jim Srayko Box 8 Denholm, Sk S0M 0R0 Phone: 306-445-5727
Lewis Reeve, Ext. Agrologist Box 250 Kelvington SK S0A 1W0 Ph: 306-327-4718	Kelvington (Kelvington Ag Society)	George Gwilliam (cultivates) Box 332 Kelvington SK S0A 1W0 Ph: 306-327-4475
Keith Bater, Extension Agrologist Box 480 Unity SK S0K 4L0 Ph: 306-228-6400	Luseland	Erhard Poggemiller (Kep Industries in Kerrobert) Box 680 Kerobert, SK S0L 1R0 Ph: 306-834-5353
Colin Beaulieu, Extension Agrologist 1106-6th St. Estavan, SK S4A 1A8 Ph: 306-637-4606	Carlyle	Bud Askin Box 75 Arcola, Sk. S0C 0G0 Ph: 306-455-2603
Dave Hryhor, Extension Agrologist 3735 Thatcher Avenue Saskatoon SK S7K 2H6 Ph: 306-933-5326	Rosthern	Seager Wheeler Farm Historical Society c/o Larry Janzen Box 476 Rosthern SK S0K 3R0 Ph: 306-232-5588
John Ippolito, Extension Agrologist Box 640 Rosetown SK S0L 2V0 Ph: 306-882-5452	Elrose	Ken Campbell Box 187 Elrose SK S0L 0Z0 Ph: 306-378-4127

Extension Agrologist	Site	Co-operator
Rachel Ostryk, Extension Agrologist Box 580 Wynyard SK S0A 4T0 Ph: 306-554-2526	Wynyard	Dan Peterson Box 944 Wynyard SK S0A 4T0 Ph: 306-554-3423
Richard Wharton , Extension Agrologist Box 693 Davidson SK S0G 1A0 Ph: 306-567-2806	Girvin	Neil White Box 506 Davidson SK S0G 1A0 Ph: 306-567-4251
Larry Lee, Extension Agrologist Box 2166 Nipawin SK S0E 1E0 Ph: 306-862-1793	Nipawin (Sask Wheat Pool)	Al Verstraeten (cultivates) Box 1137 Nipawin SK S0E 1E0 Ph: 306-862-5287
Brian Harris, Extension Agrologist Box 3003 Prince Albert SK S6V 6G1 Ph: 306-953-2784	Shellbrook	Jamie Scholz Box 340 Shellbrook SK S0J 2E0 Ph: 306-747-2493
Garry Noble, Extension Agrologist Box 250 Assiniboia SK S0H 0B0 Ph: 306-642-7227	Assiniboia (alternate years between Lamb and Karst)	Nelson Lamb (99) Box 1034 Assiniboia SK S0H 0B0 Ph: 306-642-3401

(d) Personnel:

PERSONNEL REPORT 2001-2002

PROGRAM COORDINATOR

K. Sapsford – 12 months @ 33%

TECHNICAL STAFF:

S. Piche - 12 months @100%

SEASONAL STAFF (Student):

R. Laurie - 4 month @ 100%
J. Hovland - 4 months @ 100%
D. Rousseaux - 5 months @ 100%
K. Donald – 1.5 months @ 100%

CONSULTANTS & EMPLOYEES PAID FROM OTHER SOURCES:

F. A. Holm, Director CDC
S. Fox, Assistant Professor
B. Harvey, Professor
P. Hucl, Professor
B. Rossnagel, Professor
G. Rowland, Professor
T. Warkentin, Associate Professor
B. Vandenberg, Associate Professor
B. Black, Mechanical & Shop Assistant
K. Blomquist, Field Superintendent
D. Clauson, Field & Shop Assistant
M. Freeman, Administrative Officer
M. Lee, Secretary/Payroll

(e) Equipment:
No equipment with a value > $500.00 was purchased with project funds.

(f) Project Developed Materials:

Copies of the data generated in 2001and the Five Year Accumulated data summary are included with this report These have been printed in booklet form for distribution to SAF Extension Agrologists, Soils and Crops Agrologists, appropriate Provincial Specialists and ERU staff, co-operating farmers and plant breeders. Additional copies are available on request.

Project Photos:
No photos of the trials were obtained in 2001.

(g) Acknowledgement:
The financial and logistical support provided by Saskatchewan Agriculture & Food is acknowledged at all field days and in the data summaries.

(h) Expense Statement:

To be provided by University of Saskatchewan Financial Services.